

AMENDMENTS TO THE SPECIFICATION:

Please amend paragraph [00051] beginning at page 10, line 19, and continuing to page 10, line 24, as follows:

In the media access network 20, the Link Control (CC) and MAC configuration parameters are adapted to the physical layer speed and to the transport protocol (UDP/IP). Examples of such configuration parameters are the LC PDU size, MAC PDU size , TTI and TFS (Transport Format Set). These parameters are considered configuration data and are configured in the access network controller node (ANCN) 26 for every Access Bearer (AB) type.

Please amend paragraph [00054] beginning at page 11, line 7, and continuing to page 11, line 10, as follows:

For each TTI the MAC entities choose a TFC from the TFCS and request the relevant PDU's from LC buffers. The MAC then delivers PDUs from LC buffers, adding the MAC header and tagging a UDP/IP address. A new TFC may also be selected due to the traffic intensity from the CN.

Please amend paragraph [00123] beginning at page 28, line 17, and continuing to page 28, line 26, as follows:

In the MAC layer the logical channels from the Link Control (CC) layer are mapped to the transport channels MAC frames (e.g., to MAC PDUs). In the Layer 1 protocol the transport channels MAC frames are encapsulated either into UDP/IP packets or into AAL2/ATM packets. Fig. 9A shows a mapping between different layers for three different access bearers when the physical layer is an IP layer; Fig. 9B shows a mapping between different layers for three different access bearers when the physical layer is an AAL2/ATM layer. In Fig. 9A and Fig. 9B, the three different access bearers are illustrated in column format. For example, in Fig. 9A in the Link Control (CC) sublayer a first access bearer has RCL PDU 301_{LC-9A}; a second access bearer has a RCL PDU 302_{LC-9A}; and, a third access bearer has RCL PDU 303_{LC-9A}[[;]].

Please amend paragraph [000125] beginning at page 29, line 3, and continuing to page 29, line 9, as follows:

For example, ~~Every every~~ access bearer (AB) or MAC frame has two UDP/IP addresses in case of IP transport protocol, i.e., one UDP/IP address for the stationary equipment unit (SEU) 22 and one UDP/IP address for access network controller node (ANCN) 26. Similarly, every access bearer (AB) or MAC frame has two AAL2 CIDs (connection identifiers) in the case of AAL2 transport: one CID toward the stationary equipment unit (SEU) 22 and one CID toward the access network controller node (ANCN) 26.